

# SEQUENCE LISTING

<110> DE CROMBRUGGHE, BENOIT  
AKIYAMA, HARUHIKO

<120> HA4, A NEW OSTEOBLAST- AND CHONDROCYTE-SPECIFIC SMALL  
SECRETED PEPTIDE, COMPOSITIONS AND METHODS OF USE

<130> UTSC:772US

<140> 10/334,099

<141> 2005-05-06

<150> PCT/US2003/035139

<151> 2003-11-04

<150> 60/423,690

<151> 2002-11-04

<160> 3

<170> PatentIn Ver. 2.1

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<212> DNA

<213> Artificial Sequence

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<221> CDS

<222> (1)..(735)

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<223> Description of Artificial Sequence: Synthetic  
Primer

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ttc ctt gtg ctg ctg ctg ctt cag ttg tcc gca ccg tcc agc gcc tct	96
Phe Leu Val Leu Leu Leu Leu Gln Leu Ser Ala Pro Ser Ser Ala Ser	
20 25 30	
gag aac ccc aag gtg aag caa aaa gcg ctg atc cgg cag agg gag gtg	144
Glu Asn Pro Lys Val Lys Gln Lys Ala Leu Ile Arg Gln Arg Glu Val	
35 40 45	
gta gac ctg tat aat gga atg tgt cta caa gga cca gca gga gtt ccc	192
Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly Val Pro	
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Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr Pro Gly	
65 70 75 80	

atc cca ggt cgg gat gga ttc aaa ggg gaa aag gga gaa tgc tta agg	288
Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys Leu Arg	
85 90 95	
gaa agc ttt gag gag tcc tgg acc cca aac tat aag cag tgt tgc tgg	336
Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys Ser Trp	
100 105 110	
agt tgc ctg aac tat ggc ata gat ctt ggg aaa att gcg gag tgt aca	384
Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu Cys Thr	
115 120 125	
ttc acg aag atg cgc tcc aac agt gct ctg cga gtt ctg ttc agt ggc	432
Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe Ser Gly	
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Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp Tyr Phe	
145 150 155 160	
aca ttt aat gga gct gaa tgt tca gga cct ctt ccc atc gaa gcc atc	528
Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu Ala Ile	
165 170 175	
atc tat ctg gac caa gga agc cct gag tta aat tca act att aat att	576
Ile Tyr Leu Asp Gln Gly Ser Pro Glu Leu Asn Ser Thr Ile Asn Ile	
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cat cgt act tcc tct gtg gaa gga ctg tgt gaa ggg att ggt gct gga	624
His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly Ala Gly	
195 200 205	
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Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr Pro Lys	
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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic Peptide

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 <223> Description of Artificial Sequence: Synthetic  
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